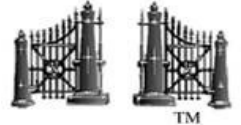




# Agenda for 6 February 2014 Picatinny Arsenal Restoration Advisory Board

US Army Garrison



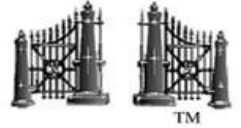
Picatinny Arsenal

- **Attendance, Introductions & Correspondence**
- **Old Business**
- **TAPP Contract Financial Report and Path Ahead**
- **Resolution of the Five Site Dispute**
- **MMRP RI Report Synopsis**
- **Groundwater Updates**
  - **Mid-Valley Groundwater**
  - **Area B Groundwater**
  - **Area C Groundwater**
- **Former Burning Grounds Update**
- **Update in a Minute**
- **Synopsis and Next Meeting**



# TAPP Financial Report Update

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Picatinny Arsenal

- Contract awarded September 2011 with 2 Option Years via Purchase Order.
- Option Year 1 Exercised and Period of Performance was to September 2013.

Purchase Order Value \$23,218.50  
Spent \$15,383.90

- Option Year 2 Exercised and Period of Performance will be to September 19, 2014.

- Purchase Order Value: \$24,052.84 till September 19, 2014

**•This final option year of the contract is also the last year of the 2<sup>nd</sup> Waiver Request for a TAPP grant.**

- Method of selecting what TAPP reviews: Doodle polls with a minimum of two votes in favor needed for a review. Continue to send executive summaries, reports, or report summaries prior to the Doodle vote.

Recent reviews: Former Burning Grounds Remedial Design, MMRP RI Report

Suggested upcoming reviews: Annual Reports for LTM, Proposed Plans

## Five Site Dispute Issue

Which soil contaminants need to be addressed  
when risk is unacceptable at a site??

- Army Position: Risk Drivers Only get cleaned up  
"New Jersey SRS based on the ingestion-dermal health criterion are only ARARs for COCs found to be driving site risks or hazards at the site and not for non-risk or hazard drivers even if identified as Contaminants of Potential Concern (COPCs) at the initial stage of the risk assessment process. "
- EPA Position: State Cleanup numbers are generally ARARs:  
"..once an unacceptable risk or hazard is identified for a chemical on-site (and it therefore becomes a Chemical of Concern (COC)), the ARAR analysis triggers recognition of the entire list of the New Jersey Soil Remediation Standards (SRS) based on ingestion-dermal health criterion promulgated by New Jersey for all chemicals present on-site regardless of the CERCLA risk assessment process (i.e. regardless of whether or not they are an identified COC in the CERCLA risk assessment). "

# Resolution of Five Site Dispute

17 December 2013 Letter from LTC Mackay to Walter Mugdan



- Army agrees for these actions since there is an unacceptable soil risk for a current or reasonably anticipated future land use that NJDEP soil cleanup standard must be attained by the remedial action, regardless of whether the contaminant has been designated as a risk driver.
- EPA agreed at the 19 NOV meeting that the EPA's manganese soil remediation goal of 23,000 mg/kg is higher than the soil exposure point concentration for manganese at Site 122/PICA 011 and Site 138/PICA 108; the sites can drop from this "action" FS.
- Next Step: Three Site Proposed Plan and revised Feasibility Study to be submitted in early March; two sites will be added to the 45 Site FS and Proposed Plan.

## Site 149/PICA 085 or Former Building 541

Removal of soils with concentrations of 2,4- DNT and P AHs will be conducted to reduce the Exposure Point Concentration below the identified ARARs of 3 mg/kg for 2,4-DNT and the applicable PAH compound ARARs



### Legend

-  Army Proposed Remediation (risk driver 2,4, DNT above NJ NRSRS of 3 mg/kg)
-  USEPA Proposed Remediation Area based on PAHs concentrations exceeding the NJ NRSRS







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### **Site 131 /PICA 091/Building 256**

Removal of soils with concentrations of arsenic and PAHs to reduce the Exposure Point Concentration below the identified ARARs of 19 mg/kg for arsenic and the applicable P AH compound ARARs



#### Legend

-  Army Proposed Remediation (risk driver arsenic above NJ NRSRS of 19 mg/kg)
-  USEPA Proposed Remediation Area based on PAH concentrations exceeding the NJ NRSRS





### **Site 118/PICA 097/Building 41:**

Removal of soils with concentrations of thallium and arsenic to reduce their Exposure Point Concentrations below the identified ARARs of 79 mg/kg and 19 mg/kg, respectively



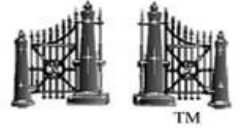
#### **Legend**

-  Army Proposed Remediation (risk driver thallium above 79 mg/kg)
-  USEPA Proposed Remediation Area based on exceedances of the New Jersey Non Residential Soil Remediation Standards (NJ NRSRS)





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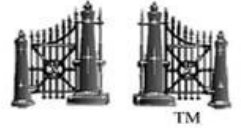
Update-in-a-Minute  
Installation Restoration Program  
06 February 2014  
Presentation to the  
Picatinny Arsenal  
Restoration Advisory Board





## Status of Installation Restoration Investigations

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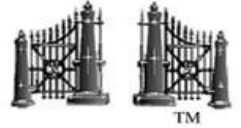
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- **Installation Restoration Program Remedial Investigations considered complete.**
- **Lake Picatinny sampling completed and results show no ecological damage; discussed at meeting.**
- **Marsh Site Investigation Report provided to EPA and NJDEP. Additional sampling results provided to NJDEP. Decision to go forward or not.**



# Status of IRP Feasibility Studies (FSs)

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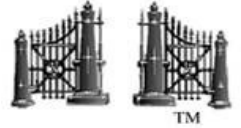
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- **600 Hill Groundwater approved**
- **Lakes FS: Document will need to be revised (once again) based on sampling results**
- **45 Site FS: All sites with acceptable risk; consistent with No Action. Resubmit by July: Only two alternatives - No Action and No Action with monitoring: NJDEP provides comments. Briefing paper by TAPP**
- **Non-Lakes Sites: with all sites with acceptable risk submitted consistent with No Action**
- **5 Site FS: Resolved and new FS to be submitted in February of 2014.**



## Status of Proposed Plans

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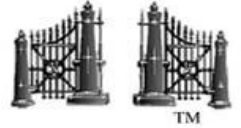
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- **600 Hill GW Proposed Plan: Will need to be separately contracted.**
- **PICA 111 NFA Proposed Plan: Submitted in June, new 2014 contractor to make modifications.**
- **26 Site NFA Proposed Plan: Submitted in June, comments from EPA and NJDEP in August. Army provides responses back to NJDEP and EPA. Will public notice in May.**



# Status of Records of Decision

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- **Signed RODs, Implemented:**

- Site 20/24: considered complete except LUC monitoring
- Post Farm: considered complete except for monitoring
- Green Pond/ Bear Swamp Brook: only monitoring remains
- Area D Groundwater: Permeable Reactive Barrier monitoring continues
- Site 25/26: ICs and vegetative cover considered complete
- Site 180 ROD: complete except LTM
- Area E Groundwater: considered complete except for the MNA monitoring
- 13 Sites Institutional ROD PICA 20: LUCs ongoing
- Site 61/104: considered complete
- Area B Groundwater: considered *Remedy* in Place
- Site 31/101 DRMO Yard: complete except for LUC
- Southern Boundary/Area C: LTM continues
- Group 1 GW and soils: considered complete except monitoring
- Group 3 GW and surface water: considered complete except monitoring
- Site 78, PICA 13 GW and SW: considered complete except monitoring
- MidValley Groundwater: remediation ongoing and discussed at this RAB

- **Next up**

- 25 Sites NFA Record of Decision: COL Mackay signed document in early September. EPA will sign based on a few changes based on their (and HQ) review of the risk assessment as requested by the NJDEP.

- **Signed now being implemented**

- Former Burning Grounds (PICA 02): Discussed at this RAB; Explanation of Significant Differences required by EPA for Hybrid Cover; Contractual Modification required to be in compliance with C-1 Requirements.

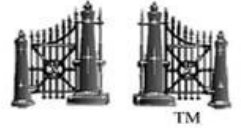






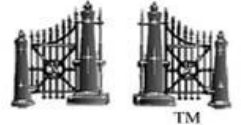
# Remedial Action Reports & Long Term Monitoring Reports

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- **MidValley Groundwater Interim Remedial Action Report**
- **Post Farm**
- **Site 180**
- **Site 25/26**
- **Area B GW**
- **Area E GW**
- **Area D GW**
- **Green Pond Brook/Bear Swamp Brook**
- **Site 104/61 Report**
- **Area C GW: NJDEP requesting offsite well, Army disagrees**
- **Group 1 GW**
- **Group 3 GW**
- **PICA 13/Site 78 GW**
- **MidValley Groundwater**
- **LUC Annual Certification**



**2014 Installation Action Plan (IAP) is now being updated  
Will include what we agreed to at two-day meeting on the  
subject**

**2013 IAP has been on Picatinny web page.**

- **Defense State Memorandum of Agreement JEP 2-Year Workplan is approved**
  - **This is how the New Jersey is paid to review and provide oversight consistent with CERLCA.**
- **A major performance-based contracting effort for this FY or next**
  - **Replacement of current PBC contract with LTM requirements**
  - **Take over ROD to Remedy that only went to ROD in current PBC**
  - **MMRP development of Feasibility Study through ROD for all sites**
  - **Former Skeet Range, 600 Hill Groundwater, and PICA 111**